



SEQUENCE LISTING

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<120> CRYSTAL STRUCTURES OF P-SELECTIN, P- AND E-SELECTIN COMPLEXES,
AND USES THEREOF

<130> 16163-004001

<140> US 09/859,722

<141> 2001-05-17

<150> US 60/205,875

<151> 2000-05-19

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 830

<212> PRT

<213> Homo sapiens

<400> 1

Met	Ala	Asn	Cys	Gln	Ile	Ala	Ile	Leu	Tyr	Gln	Arg	Phe	Gln	Arg	Val
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Val	Phe	Gly	Ile	Ser	Gln	Leu	Leu	Cys	Phe	Ser	Ala	Leu	Ile	Ser	Glu
			20					25					30		
Leu	Thr	Asn	Gln	Lys	Glu	Val	Ala	Ala	Trp	Thr	Tyr	His	Tyr	Ser	Thr
		35					40					45			
Lys	Ala	Tyr	Ser	Trp	Asn	Ile	Ser	Arg	Lys	Tyr	Cys	Gln	Asn	Arg	Tyr
	50					55					60				
Thr	Asp	Leu	Val	Ala	Ile	Gln	Asn	Lys	Asn	Glu	Ile	Asp	Tyr	Leu	Asn
65					70					75				80	
Lys	Val	Leu	Pro	Tyr	Tyr	Ser	Ser	Tyr	Tyr	Trp	Ile	Gly	Ile	Arg	Lys
			85						90					95	
Asn	Asn	Lys	Thr	Trp	Thr	Trp	Val	Gly	Thr	Lys	Lys	Ala	Leu	Thr	Asn
		100						105					110		
Glu	Ala	Glu	Asn	Trp	Ala	Asp	Asn	Glu	Pro	Asn	Asn	Lys	Arg	Asn	Asn
		115					120					125			
Glu	Asp	Cys	Val	Glu	Ile	Tyr	Ile	Lys	Ser	Pro	Ser	Ala	Pro	Gly	Lys
	130					135					140				
Trp	Asn	Asp	Glu	His	Cys	Leu	Lys	Lys	Lys	His	Ala	Leu	Cys	Tyr	Thr
145				150						155				160	
Ala	Ser	Cys	Gln	Asp	Met	Ser	Cys	Ser	Lys	Gln	Gly	Glu	Cys	Leu	Glu
			165						170					175	
Thr	Ile	Gly	Asn	Tyr	Thr	Cys	Ser	Cys	Tyr	Pro	Gly	Phe	Tyr	Gly	Pro
		180						185					190		
Glu	Cys	Glu	Tyr	Val	Arg	Glu	Cys	Gly	Glu	Leu	Glu	Leu	Pro	Gln	His
	195					200						205			
Val	Leu	Met	Asn	Cys	Ser	His	Pro	Leu	Gly	Asn	Phe	Ser	Phe	Asn	Ser

210		215		220
Gln Cys Ser Phe His	Cys Thr Asp Gly Tyr	Gln Val Asn Gly Pro Ser		
225	230	235		240
Lys Leu Glu Cys Leu	Ala Ser Gly Ile Trp	Thr Asn Lys Pro Pro Gln		
	245	250		255
Cys Leu Ala Ala Gln	Cys Pro Pro Leu Lys	Ile Pro Glu Arg Gly Asn		
	260	265		270
Met Ile Cys Leu His	Ser Ala Lys Ala Phe	Gln His Gln Ser Ser Cys		
	275	280		285
Ser Phe Ser Cys Glu	Glu Gly Phe Ala Leu	Val Gly Pro Glu Val Val		
	290	295		300
Gln Cys Thr Ala Ser	Gly Val Trp Thr Ala	Pro Ala Pro Val Cys Lys		
305	310	315		320
Ala Val Gln Cys Gln	His Leu Glu Ala Pro	Ser Glu Gly Thr Met Asp		
	325	330		335
Cys Val His Pro Leu	Thr Ala Phe Ala Tyr	Gly Ser Ser Cys Lys Phe		
	340	345		350
Glu Cys Gln Pro Gly	Tyr Arg Val Arg Gly	Leu Asp Met Leu Arg Cys		
	355	360		365
Ile Asp Ser Gly His	Trp Ser Ala Pro Leu	Pro Thr Cys Glu Ala Ile		
	370	375		380
Ser Cys Glu Pro Leu	Glu Ser Pro Val His	Gly Ser Met Asp Cys Ser		
385	390	395		400
Pro Ser Leu Arg Ala	Phe Gln Tyr Asp Thr	Asn Cys Ser Phe Arg Cys		
	405	410		415
Ala Glu Gly Phe Met	Leu Arg Gly Ala Asp	Ile Val Arg Cys Asp Asn		
	420	425		430
Leu Gly Gln Trp Thr	Ala Pro Ala Pro Val	Cys Gln Ala Leu Gln Cys		
	435	440		445
Gln Asp Leu Pro Val	Pro Asn Glu Ala Arg	Val Asn Cys Ser His Pro		
	450	455		460
Phe Gly Ala Phe Arg	Tyr Gln Ser Val Cys	Ser Phe Thr Cys Asn Glu		
465	470	475		480
Gly Leu Leu Leu Val	Gly Ala Ser Val Leu	Gln Cys Leu Ala Thr Gly		
	485	490		495
Asn Trp Asn Ser Val	Pro Pro Glu Cys Gln	Ala Ile Pro Cys Thr Pro		
	500	505		510
Leu Leu Ser Pro Gln	Asn Gly Thr Met Thr	Cys Val Gln Pro Leu Gly		
	515	520		525
Ser Ser Ser Tyr Lys	Ser Thr Cys Gln Phe	Ile Cys Asp Glu Gly Tyr		
	530	535		540
Ser Leu Ser Gly Pro	Glu Arg Leu Asp Cys	Thr Arg Ser Gly Arg Trp		
545	550	555		560
Thr Asp Ser Pro Pro	Met Cys Glu Ala Ile	Lys Cys Pro Glu Leu Phe		
	565	570		575
Ala Pro Glu Gln Gly	Ser Leu Asp Cys Ser	Asp Thr Arg Gly Glu Phe		
	580	585		590
Asn Val Gly Ser Thr	Cys His Phe Ser Cys	Asn Asn Gly Phe Lys Leu		
	595	600		605
Glu Gly Pro Asn Asn	Val Glu Cys Thr Thr	Ser Gly Arg Trp Ser Ala		
	610	615		620
Thr Pro Pro Thr Cys	Lys Gly Ile Ala Ser	Leu Pro Thr Pro Gly Leu		
625	630	635		640
Gln Cys Pro Ala Leu	Thr Thr Pro Gly Gln	Gly Thr Met Tyr Cys Arg		
	645	650		655
His His Pro Gly Thr	Phe Gly Phe Asn Thr	Thr Cys Tyr Phe Gly Cys		
	660	665		670

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Asn Ala Gly Phe Thr Leu Ile Gly Asp Ser Thr Leu Ser Cys Arg Pro
    675                680                685
Ser Gly Gln Trp Thr Ala Val Thr Pro Ala Cys Arg Ala Val Lys Cys
    690                695                700
Ser Glu Leu His Val Asn Lys Pro Ile Ala Met Asn Cys Ser Asn Leu
705                710                715                720
Trp Gly Asn Phe Ser Tyr Gly Ser Ile Cys Ser Phe His Cys Leu Glu
    725                730                735
Gly Gln Leu Leu Asn Gly Ser Ala Gln Thr Ala Cys Gln Glu Asn Gly
    740                745                750
His Trp Ser Thr Thr Val Pro Thr Cys Gln Ala Gly Pro Leu Thr Ile
    755                760                765
Gln Glu Ala Leu Thr Tyr Phe Gly Gly Ala Val Ala Ser Thr Ile Gly
    770                775                780
Leu Ile Met Gly Gly Thr Leu Leu Ala Leu Leu Arg Lys Arg Phe Arg
785                790                795                800
Gln Lys Asp Asp Gly Lys Cys Pro Leu Asn Pro His Ser His Leu Gly
    805                810                815
Thr Tyr Gly Val Phe Thr Asn Ala Ala Phe Asp Pro Ser Pro
    820                825                830

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<210> 2
<211> 610
<212> PRT
<213> Homo sapiens

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<400> 2
Met Ile Ala Ser Gln Phe Leu Ser Ala Leu Thr Leu Val Leu Leu Ile
 1                5                10                15
Lys Glu Ser Gly Ala Trp Ser Tyr Asn Thr Ser Thr Glu Ala Met Thr
    20                25                30
Tyr Asp Glu Ala Ser Ala Tyr Cys Gln Gln Arg Tyr Thr His Leu Val
    35                40                45
Ala Ile Gln Asn Lys Glu Glu Ile Glu Tyr Leu Asn Ser Ile Leu Ser
    50                55                60
Tyr Ser Pro Ser Tyr Tyr Trp Ile Gly Ile Arg Lys Val Asn Asn Val
65                70                75                80
Trp Val Trp Val Gly Thr Gln Lys Pro Leu Thr Glu Glu Ala Lys Asn
    85                90                95
Trp Ala Pro Gly Glu Pro Asn Asn Arg Gln Lys Asp Glu Asp Cys Val
    100               105               110
Glu Ile Tyr Ile Lys Arg Glu Lys Asp Val Gly Met Trp Asn Asp Glu
    115               120               125
Arg Cys Ser Lys Lys Lys Leu Ala Leu Cys Tyr Thr Ala Ala Cys Thr
    130               135               140
Asn Thr Ser Cys Ser Gly His Gly Glu Cys Val Glu Thr Ile Asn Asn
145               150               155               160
Tyr Thr Cys Lys Cys Asp Pro Gly Phe Ser Gly Leu Lys Cys Glu Gln
    165               170               175
Ile Val Asn Cys Thr Ala Leu Glu Ser Pro Glu His Gly Ser Leu Val
    180               185               190
Cys Ser His Pro Leu Gly Asn Phe Ser Tyr Asn Ser Ser Cys Ser Ile
    195               200               205
Ser Cys Asp Arg Gly Tyr Leu Pro Ser Ser Met Glu Thr Met Gln Cys
210               215               220
Met Ser Ser Gly Glu Trp Ser Ala Pro Ile Pro Ala Cys Asn Val Val

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225					230					235				240	
Glu	Cys	Asp	Ala	Val	Thr	Asn	Pro	Ala	Asn	Gly	Phe	Val	Glu	Cys	Phe
				245					250					255	
Gln	Asn	Pro	Gly	Ser	Phe	Pro	Trp	Asn	Thr	Thr	Cys	Thr	Phe	Asp	Cys
			260					265					270		
Glu	Glu	Gly	Phe	Glu	Leu	Met	Gly	Ala	Gln	Ser	Leu	Gln	Cys	Thr	Ser
		275					280					285			
Ser	Gly	Asn	Trp	Asp	Asn	Glu	Lys	Pro	Thr	Cys	Lys	Ala	Val	Thr	Cys
	290				295					300					
Arg	Ala	Val	Arg	Gln	Pro	Gln	Asn	Gly	Ser	Val	Arg	Cys	Ser	His	Ser
305					310					315					320
Pro	Ala	Gly	Glu	Phe	Thr	Phe	Lys	Ser	Ser	Cys	Asn	Phe	Thr	Cys	Glu
				325					330					335	
Glu	Gly	Phe	Met	Leu	Gln	Gly	Pro	Ala	Gln	Val	Glu	Cys	Thr	Thr	Gln
			340					345					350		
Gly	Gln	Trp	Thr	Gln	Gln	Ile	Pro	Val	Cys	Glu	Ala	Phe	Gln	Cys	Thr
		355					360					365			
Ala	Leu	Ser	Asn	Pro	Glu	Arg	Gly	Tyr	Met	Asn	Cys	Leu	Pro	Ser	Ala
	370					375					380				
Ser	Gly	Ser	Phe	Arg	Tyr	Gly	Ser	Ser	Cys	Glu	Phe	Ser	Cys	Glu	Gln
385					390					395					400
Gly	Phe	Val	Leu	Lys	Gly	Ser	Lys	Arg	Leu	Gln	Cys	Gly	Pro	Thr	Gly
				405					410					415	
Glu	Trp	Asp	Asn	Glu	Lys	Pro	Thr	Cys	Glu	Ala	Val	Arg	Cys	Asp	Ala
			420					425					430		
Val	His	Gln	Pro	Pro	Lys	Gly	Leu	Val	Arg	Cys	Ala	His	Ser	Pro	Ile
		435					440					445			
Gly	Glu	Phe	Thr	Tyr	Lys	Ser	Ser	Cys	Ala	Phe	Ser	Cys	Glu	Glu	Gly
	450					455					460				
Phe	Glu	Leu	Tyr	Gly	Ser	Thr	Gln	Leu	Glu	Cys	Thr	Ser	Gln	Gly	Gln
465					470					475					480
Trp	Thr	Glu	Glu	Val	Pro	Ser	Cys	Gln	Val	Val	Lys	Cys	Ser	Ser	Leu
				485					490					495	
Ala	Val	Pro	Gly	Lys	Ile	Asn	Met	Ser	Cys	Ser	Gly	Glu	Pro	Val	Phe
			500					505					510		
Gly	Thr	Val	Cys	Lys	Phe	Ala	Cys	Pro	Glu	Gly	Trp	Thr	Leu	Asn	Gly
		515					520					525			
Ser	Ala	Ala	Arg	Thr	Cys	Gly	Ala	Thr	Gly	His	Trp	Ser	Gly	Leu	Leu
	530					535					540				
Pro	Thr	Cys	Glu	Ala	Pro	Thr	Glu	Ser	Asn	Ile	Pro	Leu	Val	Ala	Gly
545					550					555					560
Leu	Ser	Ala	Ala	Gly	Leu	Ser	Leu	Leu	Thr	Leu	Ala	Pro	Phe	Leu	Leu
			565						570					575	
Trp	Leu	Arg	Lys	Cys	Leu	Arg	Lys	Ala	Lys	Lys	Phe	Val	Pro	Ala	Ser
			580					585					590		
Ser	Cys	Gln	Ser	Leu	Glu	Ser	Asp	Gly	Ser	Tyr	Gln	Lys	Pro	Ser	Tyr
		595					600					605			
Ile	Leu														
	610														

<210> 3

<211> 412

<212> PRT

<213> Homo sapiens

<400> 3

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Met Pro Leu Gln Leu Leu Leu Leu Leu Ile Leu Leu Gly Pro Gly Asn
 1          5          10          15
Ser Leu Gln Leu Trp Asp Thr Trp Ala Asp Glu Ala Glu Lys Ala Leu
 20          25          30
Gly Pro Leu Leu Ala Arg Asp Arg Arg Gln Ala Thr Glu Tyr Glu Tyr
 35          40          45
Leu Asp Tyr Asp Phe Leu Pro Glu Thr Glu Pro Pro Glu Met Leu Arg
 50          55          60
Asn Ser Thr Asp Thr Thr Pro Leu Thr Gly Pro Gly Thr Pro Glu Ser
 65          70          75          80
Thr Thr Val Glu Pro Ala Ala Arg Arg Ser Thr Gly Leu Asp Ala Gly
 85          90          95
Gly Ala Val Thr Glu Leu Thr Thr Glu Leu Ala Asn Met Gly Asn Leu
 100          105          110
Ser Thr Asp Ser Ala Ala Met Glu Ile Gln Thr Thr Gln Pro Ala Ala
 115          120          125
Thr Glu Ala Gln Thr Thr Gln Pro Val Pro Thr Glu Ala Gln Thr Thr
 130          135          140
Pro Leu Ala Ala Thr Glu Ala Gln Thr Thr Arg Leu Thr Ala Thr Glu
 145          150          155          160
Ala Gln Thr Thr Pro Leu Ala Ala Thr Glu Ala Gln Thr Thr Pro Pro
 165          170          175
Ala Ala Thr Glu Ala Gln Thr Thr Gln Pro Thr Gly Leu Glu Ala Gln
 180          185          190
Thr Thr Ala Pro Ala Ala Met Glu Ala Gln Thr Thr Ala Pro Ala Ala
 195          200          205
Met Glu Ala Gln Thr Thr Pro Pro Ala Ala Met Glu Ala Gln Thr Thr
 210          215          220
Gln Thr Thr Ala Met Glu Ala Gln Thr Thr Ala Pro Glu Ala Thr Glu
 225          230          235          240
Ala Gln Thr Thr Gln Pro Thr Ala Thr Glu Ala Gln Thr Thr Pro Leu
 245          250          255
Ala Ala Met Glu Ala Leu Ser Thr Glu Pro Ser Ala Thr Glu Ala Leu
 260          265          270
Ser Met Glu Pro Thr Thr Lys Arg Gly Leu Phe Ile Pro Phe Ser Val
 275          280          285
Ser Ser Val Thr His Lys Gly Ile Pro Met Ala Ala Ser Asn Leu Ser
 290          295          300
Val Asn Tyr Pro Val Gly Ala Pro Asp His Ile Ser Val Lys Gln Cys
 305          310          315          320
Leu Leu Ala Ile Leu Ile Leu Ala Leu Val Ala Thr Ile Phe Phe Val
 325          330          335
Cys Thr Val Val Leu Ala Val Arg Leu Ser Arg Lys Gly His Met Tyr
 340          345          350
Pro Val Arg Asn Tyr Ser Pro Thr Glu Met Val Cys Ile Ser Ser Leu
 355          360          365
Leu Pro Asp Gly Gly Glu Gly Pro Ser Ala Thr Ala Asn Gly Gly Leu
 370          375          380
Ser Lys Ala Lys Ser Pro Gly Leu Thr Pro Glu Pro Arg Glu Asp Arg
 385          390          395          400
Glu Gly Asp Asp Leu Thr Leu His Ser Phe Leu Pro
 405          410

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<210> 4
<211> 5
<212> PRT

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<213> Homo sapiens

<400> 4

Asp Asp Asp Asp Lys
1 5

<210> 5

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 5

Gln	Ala	Thr	Glu	Tyr	Glu	Tyr	Leu	Asp	Tyr	Asp	Phe	Leu	Pro	Glu	Thr
1				5				10						15	
Glu	Pro	Pro	Arg	Pro	Met	Met	Asp	Asp	Asp	Asp	Lys				
			20				25								

<210> 6

<211> 160

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 6

Trp	Thr	Tyr	His	Tyr	Ser	Thr	Lys	Ala	Tyr	Ser	Trp	Asn	Ile	Ser	Arg
1				5				10						15	
Ala	Tyr	Cys	Gln	Asn	Arg	Tyr	Thr	Asp	Leu	Val	Ala	Ile	Gln	Asn	Lys
			20					25					30		
Asn	Glu	Ile	Asp	Tyr	Leu	Asn	Lys	Val	Leu	Pro	Tyr	Tyr	Ser	Ser	Tyr
		35					40					45			
Tyr	Trp	Ile	Gly	Ile	Arg	Lys	Asn	Asn	Lys	Thr	Trp	Thr	Trp	Val	Gly
	50					55				60					
Thr	Lys	Lys	Ala	Leu	Thr	Asn	Glu	Ala	Glu	Asn	Trp	Ala	Asp	Asn	Glu
65					70				75					80	
Pro	Asn	Asn	Lys	Arg	Asn	Asn	Glu	Asp	Cys	Val	Glu	Ile	Tyr	Ile	Lys
			85					90						95	
Ser	Pro	Ser	Ala	Pro	Gly	Lys	Trp	Asn	Asp	Glu	His	Cys	Leu	Lys	Lys
			100					105					110		
Lys	His	Ala	Leu	Cys	Tyr	Thr	Ala	Ser	Cys	Gln	Asp	Met	Ser	Cys	Ser
		115					120				125				
Lys	Gln	Gly	Glu	Cys	Leu	Glu	Thr	Ile	Gly	Asn	Tyr	Thr	Cys	Ser	Cys
	130					135				140					
Tyr	Pro	Gly	Phe	Tyr	Gly	Pro	Glu	Cys	Glu	Tyr	Val	Arg	Asp	Ala	Ala
145					150					155					160

<210> 7

<211> 157

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 7

Trp	Ser	Tyr	Asn	Thr	Ser	Thr	Glu	Ala	Met	Thr	Tyr	Asp	Glu	Ala	Ser
1				5					10					15	
Ala	Tyr	Cys	Gln	Gln	Arg	Tyr	Thr	His	Leu	Val	Ala	Ile	Gln	Asn	Lys
			20					25					30		
Glu	Glu	Ile	Glu	Tyr	Leu	Asn	Ser	Ile	Leu	Ser	Tyr	Ser	Pro	Ser	Tyr
		35					40					45			
Tyr	Trp	Ile	Gly	Ile	Arg	Lys	Val	Asn	Asn	Val	Trp	Val	Trp	Val	Gly
	50					55					60				
Thr	Gln	Lys	Pro	Leu	Thr	Glu	Glu	Ala	Lys	Asn	Trp	Ala	Pro	Gly	Glu
65					70					75					80
Pro	Asn	Asn	Arg	Gln	Lys	Asp	Glu	Asp	Cys	Val	Glu	Ile	Tyr	Ile	Lys
			85						90					95	
Arg	Glu	Lys	Asp	Val	Gly	Met	Trp	Asn	Asp	Glu	Arg	Cys	Ser	Lys	Lys
			100					105					110		
Lys	Leu	Ala	Leu	Cys	Tyr	Thr	Ala	Ala	Cys	Thr	Asn	Thr	Ser	Cys	Ser
		115					120					125			
Gly	His	Gly	Glu	Cys	Val	Glu	Thr	Ile	Asn	Asn	Tyr	Thr	Cys	Lys	Cys
	130					135					140				
Asp	Pro	Gly	Phe	Ser	Gly	Leu	Lys	Cys	Glu	Gln	Ile	Val			
145					150					155					

<210> 8

<211> 158

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 8

Trp	Thr	Tyr	His	Tyr	Ser	Thr	Lys	Ala	Tyr	Ser	Trp	Asn	Ile	Ser	Arg
1				5					10					15	
Ala	Tyr	Cys	Gln	Asn	Arg	Tyr	Thr	Asp	Leu	Val	Ala	Ile	Gln	Asn	Lys
			20					25					30		
Asn	Glu	Ile	Asp	Tyr	Leu	Asn	Lys	Val	Leu	Pro	Tyr	Tyr	Ser	Ser	Tyr
	35					40						45			
Tyr	Trp	Ile	Gly	Ile	Arg	Lys	Asn	Asn	Lys	Thr	Trp	Thr	Trp	Val	Gly
	50					55					60				
Thr	Lys	Lys	Ala	Leu	Thr	Asn	Glu	Ala	Glu	Asn	Trp	Ala	Asp	Asn	Glu
65					70					75					80
Pro	Asn	Asn	Lys	Arg	Asn	Asn	Glu	Asp	Cys	Val	Glu	Ile	Tyr	Ile	Lys
			85					90						95	
Ser	Pro	Ser	Ala	Pro	Gly	Lys	Trp	Asn	Asp	Glu	His	Cys	Leu	Lys	Lys
			100					105					110		
Lys	His	Ala	Leu	Cys	Tyr	Thr	Ala	Ser	Cys	Gln	Asp	Met	Ser	Cys	Ser
		115					120					125			
Lys	Gln	Gly	Glu	Cys	Leu	Glu	Thr	Ile	Gly	Asn	Tyr	Thr	Cys	Ser	Cys
	130					135					140				
Tyr	Pro	Gly	Phe	Tyr	Gly	Pro	Glu	Cys	Glu	Tyr	Val	Arg	Glu		
145					150					155					

<210> 9
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetically generated peptide

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 Ala Tyr Cys Gln Asn Arg Tyr Thr Asp Leu Val Ala Ile Gln Asn Lys
 20 25 30
 Asn Glu Ile Asp Tyr Leu Asn Lys Val Leu Pro Tyr Tyr Ser Ser Tyr
 35 40 45
 Tyr Trp Ile Gly Ile Arg Lys Asn Asn Lys Thr Trp Thr Trp Val Gly
 50 55 60
 Thr Lys Lys Ala Leu Thr Asn Glu Ala Glu Asn Trp Ala Asp Asn Glu
 65 70 75 80
 Pro Asn Asn Lys Arg Asn Asn Glu Asp Cys Val Glu Ile Tyr Ile Lys
 85 90 95
 Ser Pro Ser Ala Pro Gly Lys Trp Asn Asp Glu His Cys Leu Lys Lys
 100 105 110
 Lys His Ala Leu Cys Tyr Thr Ala Ser Cys Gln Asp Met Ser Cys Ser
 115 120 125
 Lys Gln Gly Glu Cys Leu Glu Thr Ile Gly Asn Tyr Thr Cys Ser Cys
 130 135 140
 Tyr Pro Gly Phe Tyr Gly Pro Glu Cys Glu Tyr Val Ala
 145 150 155

<210> 10
 <211> 13
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetically generated peptide

<220>
 <221> VARIANT
 <222> 2, 5
 <223> Xaa = sulfated Tyr

<400> 10
 Ala Xaa Leu Asp Xaa Asp Phe Leu Pro Glu Thr Glu Pro
 1 5 10